Work Ord April-18-13 10.		00125		*100125*								Page 1
Item ID: Revision ID: Item Name:	646.3301 Upper Cutter	Assembly	,	Accept	*N90	0040	100)*	Setup	Start Stop	I	S1* S2*
Start Date: Required Date: Reference:	4/18/13	Start Qty: 10.00 Req'd Qty: 10.00	*10* *10*		Cust Ite Custome						IN	5/
Approvals:		an: MUS	Date: 13-04-18			Date:			Run	Start Stop	I/I	R1* R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool II	Tool #	Plan Code	Accept	t Rejo		Reject Number	Insp. Stamp
Draw Nbr	Re	vision Nbr						~~,				Stamp
646.3300	N/C	2										
-110		Pick Kit	-,	0.00								
110 Packaging Packaging		Memo		0.00				10				MM 13:11.05
120 *120*				0.00								1 1
Small Fab		Memo		0.00				10	- •		<i>W</i>	11/1/13:11:03
Small Fab		Two fastener	must be install finger-tight (see note 9)								•
		Assemble as per note 7.	per dwg and apply loctite 59	8 on all mating surface	es shown on dwg							

A/R LOCTITE 598: 125306

1

									DQA:	Date	:		
NCR: Y	'es / No				WORK ORDER NON-O	CONFOR	RMANCE / UPDATE						
	· · · · · · · · · · · · · · · · · · ·				T	-1			QA Closed:	Date	:		
Work Orde	er:				DISPOSITION		AGAINS	ST DEI	PARTMENT	ARTMENT/PROCESS			
Part N					Rework Scrap Use-as-is	The	Skid-tube Crosstube Machining Small Fab Thermoforming Finishing			Water Jet d. Eng. Coor. re/Packaging	Engineering Quality Other		
NCR N	lo				Work Order Update]	Large Fab Composit	te		Supplier			
Root				Descri	ption of work order update	Initial	Action		Sign &				
Cause	Date	Step	Qty		or Non-conformance	Chief En	g Description		Date	Verification	QC Inspector		
Doc/Data									:				
Equip/Tooling													
Operator													
Material		İ											
Setup		Ì											
Other													
Process]							
Supplier													
Training													
Unapproved			<u> </u>						<u> </u>				
						AULT CAT	EGORY						
Landii	ng Gear			_	General				1	Г	-		
	Bending				Bend	Grain		-	Ovalized	<u> </u>	Pressure/Forced		
		lot Conce	ntric to	O/S	BOM/Route	Hard		<u> </u>	Over/Under	-	Temperature/Cure		
	Cracks			ļ	Broken/Damaged	—	ction Incomplete	-	Part Incorre	<u> </u>	Weld		
		/Crimped		<u> </u>	Burrs	\vdash	ictions Incomplete/Unclear		Part Lost/M		Wrong Stock Pulled		
	Cuffs			<u> </u>	Contamination	-	tenance	-	Part Moved				
	Heat Tre			<u> </u>	Countersink	Misla		-	Positioned \		¬		
		on Strip in	Tube	<u> </u>	Cut Too Short	Misre			Power Loss/	'Surge	Other		
	Ripples i			<u> </u>	Drill Holes	Offse							
		Waves in E		n	Drawing	 	f Calibration						
	Turning	Sequence			Finish	Out c	f Sequence				•		

Outside Dimensions

Wave/Twist in Tube

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Page 2 April-18-13 10:25:24 AM Item ID: 646.3301 Accept *N900040100* Setup Start **Revision ID:** Item Name: Upper Cutter Assembly Start Date: 4/18/13 **Start Qty: 10.00** Cust Item ID: Required Date: 5/02/13 Req'd Qty: 10.00 **Customer:** Reference: Run Process Plan: ____ Date: Approvals: Tooling: Date: QC: Date:___ SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID Description **Run Hours** Code Qty **Qty** Number Stamp 130 QC5- Inspect part completeness to step on W/O 0.00 *130* 0.00 Memo Quality Control 140 Identify as per dwg & Stock Location: \$\\ \)1428 0.00 *140* Packaging 0.00 Memo Packaging ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING THE P# AND REV*** ¥ 150 QC21- Final Inspection - Work Order Release 0.00 *150* QC Memo 0.00 Quality Control

												DQA:	D:	ate: _	<u> </u>
NCR:	Yes	/ No				WORK ORDER NON-	100	NFORM	/ANCE / UPI	DATE					
											(QA Closed:	D.	ate:	:
Work Ord	or:					DISPOSITION				AGAINST D	ΕP	PARTMENT	PROCESS		
vvoik Oid	٠٠					Rework	7		Skid-tube Crosstube			Water Jet			Engineering
Part I	No.					Scrap	1		Machining	Small Fab	├ ─			Quality	
						Use-as-is	1	Therm	noforming	Finishing				Other	
NCR I	No.					Work Order Update]		Large Fab	Composite			Supplie	r	
							_	<u> </u>							
Root					1	ption of work order update	i	Initial		tion		Sign &		1	
Cause	_	Date	Step	Qty		or Non-conformance	Cr	nief Eng	Desci	ription	\dashv	Date	Verification	<u>on</u>	QC Inspector
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Material															
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Other	Ш														
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Supplier											1				
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Unapproved	Ш			<u> </u>							┙				
						<u> </u>	AUI	LT CATE	GORY `						
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•		Bending			L.	Bend	L	Grain				Ovalized			Pressure/Forced
		Centre No	ot Conce	ntric to	o/s	BOM/Route		Hardwa	re			Over/Under	tolerance		Temperature/Cure
		Cracks				Broken/Damaged		Inspecti	on Incomplete		_]	Part Incorre	ct		Weld
		Crushed/	Crimped			Burrs		Instruct	ions Incomplete/	Unclear		Part Lost/M	issing		Wrong Stock Pulled
		Cuffs				Contamination		Mainte	nance	Γ		Part Moved			

Mislabeled

Out of Calibration Out of Sequence

Outside Dimensions

Misread

Offset

Positioned Wrong

Power Loss/Surge

Other

Turning Sequence

Inspection Strip in Tube

Torque Waves in Extrusion

Heat Treat

Ripples in Bend

Countersink

Cut Too Short

Drill Holes

Drawing

Finish Folio

Wave/Twist in Tube H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Picklist Print

Work Order ID: 100125

100125

Parent Item: *Parent Item Name: Upper Cutter Assembly

646.3301

646 3301

Start Date: 4/18/13

Required Date: 5/02/13

Start Qty: 10.00

Required Qty: 10.00

Comments:

IPP REV:A 12.10.19 NEW ISSUE DD VERF:JLM

Component Item Name		Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per K	it Total Qty	Qty Issued	Date Issued	Status
J 646.3310		-	Manufactured	No		·	110	Each	0.0000	1				*
646	3310	f								** }	#103644	8 <u>1</u> 010 38	ndml	13.11.05
646.3311	•		Manufactured	No			110	Each	0.0000					
646.3312	3311	•								** 8	106057	B#100845	MM	13.11.05
The state of the s	00404		Manufactured	No			110	Each	0.0000	1	10		1	
646 Center Plate	3312									** 8	103083	MW	13.11	.05
646.3313			Manufactured	No			110	Each	0.0000	1	10			
Upper Guide	3313*	•								**	# 102884	Mr	1 13.1	1.05
646.3314	0044		Manufactured	No			110	Each	0.0000	1	10		/	
"h4h Blade 646.3315	3314*									**	8#10304	s_m//,	13.	11.05
•	0045+		Manufactured	No			110	Each	0.0000	1	, 10		1	
Blade	3315*									** 8	#103034	Mm	1 13.11	1.05
646.3316			Manufactured	No			110	Each	0.0000	1	10			,
646 Blade	3316						* & *			** B	102893	6 B# 103	515 N	M 13.11.0

												DQA:	Da	te: _	
NCR:	Yes	/ No				WORK ORDER NON-C	O	VFOR	MANCE / UP	DATE			_		
					 						QA (Closed:	Da	te:	
Work Orde	or.					DISPOSITION				AGAINST D	EPART	MENT/	PROCESS		
Part f	-					Rework Scrap Use-as-is		1	Skid-tube Machining noforming	Crosstube Small Fab Finishing	Prod. Eng. Coor.			Engineering Quality Other	
NCR I	۱o. <u>-</u>					Work Order Update			Large Fab	Composite			Supplier		
Root					Descri	ption of work order update		nitial	Ac	tion	Si	gn &			
Cause		Date	Step	Qty		or Non-conformance	Ch	ief Eng	Desc	ription		Date	Verificatio	n	QC Inspector
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Equip/Tooling												1			
Operator														l	
Material															
Setup															
Other															
Process							İ							İ	
Supplier															
Training												٠			
Unapproved															
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Landi	ng G	iear				General		-						_	
		Bending			<u></u>	Bend	L	Grain			Oval	lized		Ш	Pressure/Forced
	Ш	Centre No	ot Concer	ntric to	o/s	BOM/Route		Hardwa	re		Ove	r/Under	tolerance	Ш	Temperature/Cure
		Cracks				Broken/Damaged		Inspect	ion Incomplete		Part	Incorre	ct		Weld
		Crushed/0	Crimped.			Burrs		Instruct	ions Incomplete/	Unclear	Part	: Lost/Mi	ssing		Wrong Stock Pulled
	Cuffs			Contamination		Maintenance			Part	Moved					

Mislabeled

Out of Calibration
Out of Sequence

Outside Dimensions

Misread

Offset

Positioned Wrong

Power Loss/Surge

Other

Turning Sequence

Wave/Twist in Tube

Heat Treat

Ripples in Bend

Inspection Strip in Tube

Torque Waves in Extrusion

Countersink

Cut Too Short

Drill Holes

Drawing

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Picklist Print

April-18-13 10:25:28 AM

Work Order ID: 100125

Parent Item:

NAS1149FN832P

646.3301

Parent Item Name: Upper Cutter Assembly

100125 *646 3301*

Start Date: 4/18/13

Required Date: 5/02/13 Required Oty: 10.00

Start Qty: 10.00

17,683.00 36 360

**

NAS1149FN832P

<u>Location</u>	Lo	oc Qty	Loc Code			N N
ST294		7683			ia 3900	What 13.11.05
115158		3				
123522		400				
123900		7280				
ST510a		10000				
125268		10000				
	110	Each	3,204.000	18	180	0 0
			*	*		mlm 13.11.05

MS21042L08

Nut

MS21042L08

<u>Location</u>	Loc	: Qty	Loc Code		
ST315		3204			122814
122141		3			
122452		9	•		
122814		500			
123900		2692			
	110	Each	8,690.000	6	60
			*	*	

110

Each

NAS1149F0332P

Purchased

Purchased

No

No

Purchased No

NAS1149F0332P

WASHER

Location	Loc Qty	Loc Code	
GA	182		123900
122063	182		
ST294	158		· · · · · · · · · · · · · · · · · · ·
122063	158		_
ST295	3		
123352	3		
st510	8347		-
123900	8347		

NCR:	Yes	/	No

												DQA:	Date:		
NCR:	Yes	/ No					WORK ORDER NON-	COI	VFORM	AANCE / UP	DATE	QA Closed:	Date:		
				٠								QA Closed:	Date.		
Vork Ord	or.						DISPOSITION		AGAINST DEPARTMENT/PROCESS						
VOIR OIG							Rework	7	Skid-tube Crosstube			7	Water Jet	Engineering	
Part	No.						Scrap	1		Machining	Small Fab	Prod. Eng. Coor. Qualit			
		-					Use-as-is		Therm	noforming	Finishing	Rec/Stor	e/Packaging	Other	
NCR	No.						Work Order Update]		Large Fab	Composite	_	Supplier		
			r	<u> </u>				1				T c: 0		T	
Root		Data	Cton	041	Des		otion of work order update or Non-conformance	i	Initial nief Eng		tion cription	Sign & Date	Verification	QC Inspector	
Cause oc/Data	1	Date	Step	Qty			or Non-conformance	10	nei crig	Desc	приоп	Date	vermeation	QC Inspector	
oc/Data quip/Tooling								İ		i					
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Land	ling (Gear					General		-			_	-		
	_	Bending				_	Bend		Grain		_	Ovalized	_	Pressure/Forced	
	L	Centre No	ot Conce	ntric to	O/S	_	BOM/Route	<u> </u>	Hardwa		-	Over/Under	 	Temperature/Cure	
		Cracks					Broken/Damaged	<u> </u>	⊰	ion Incomplete	<u> </u>	Part Incorre	_	Weld	
	Crushed/Crimped. Burrs					1	\perp	┥	ions Incomplete/	/Unclear	Part Lost/M	-	Wrong Stock Pulled		
		Cuffs				<u> </u>	Contamination	<u> </u>	Mainte		-	Part Moved			
	\vdash	Heat Trea				<u> </u>	Countersink	<u> </u>	Mislabe		}-	Positioned \		Jour	
	Inspection Strip in Tube Cut Too Short					Misread Power Loss/Surge Other					Other				
	-	Ripples in				_	Drill Holes	-	Offset	o 1:1					
		Torque W			n	\vdash	Drawing	-	⊣	Calibration					
		Turning S	equence	1		1	lFinish	1	TOut of S	Sequence					

Outside Dimensions

Wave/Twist in Tube

Folio

April-18-13 10:25:28 AM

Work Order ID: 100125

Parent Item:

646.3301

Parent Item Name: Upper Cutter Assembly

100125 *646 3301*

Start Date: 4/18/13

Start Qty: 10.00

Required Date: 5/02/13 Required Qty: 10.00

AN3-12A

MS21042I3

AN3-12A

MS21042L3

Purchased

Purchased

No

No

110

Each

59.0000

**

mhl 13.11.05

MM 13.11-05

Location		<u>L</u> (oc Qty	Loc Code		
GA			6			126192
1	122407		6			
ST351			5			
1	14536		1			
1	23352		4			
ST512			48			
1	23759		48			
		110	Each	4,758.000	3	30
				4	**	

Location Loc Qty Loc Code 126333 FP001 122141 3 GA 115 122452 115 ST314 268 117885 32 119017 55 119075 138 123265 43 ST506 4372 123900 974 124291 3398

April-18-13 10:25:28 AM

Shop Packet Print

Page 3

DQA: Date: **WORK ORDER NON-CONFORMANCE / UPDATE** Yes / No NCR: QA Closed: Date: AGAINST DEPARTMENT/PROCESS DISPOSITION Work Order: Skid-tube Crosstube Water Jet Engineering Rework Small Fab Prod. Eng. Coor. Quality Scrap Machining Part No. Thermoforming Finishing Rec/Store/Packaging Other Use-as-is Supplier Work Order Update Large Fab Composite NCR No. Action Description of work order update Initial Sign & Root QC Inspector Verification Chief Eng Description Date Date Step Qty or Non-conformance Cause Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier

	FAULT CATEGORY											
Landing	Gear	General				_		_				
	Bending	Bend		Grain		Ovalized		Pressure/Forced				
	Centre Not Concentric to O/S	BOM/Route		Hardware		Over/Under tolerance	L	Temperature/Cure				
	Cracks	Broken/Damaged		Inspection Incomplete		Part Incorrect	L	Weld				
	Crushed/Crimped.	Burrs		Instructions Incomplete/Unclear		Part Lost/Missing		Wrong Stock Pulled				
	Cuffs	Contamination		Maintenance		Part Moved						
	Heat Treat	Countersink		Mislabeled		Positioned Wrong		_				
	Inspection Strip in Tube	Cut Too Short		Misread		Power Loss/Surge	L	Other				
	Ripples in Bend	Drill Holes		Offset								
	Torque Waves in Extrusion	Drawing		Out of Calibration								
	Turning Sequence Finish			Out of Sequence								
	Wave/Twist in Tube Folio			Outside Dimensions								

Training Unapproved

Picklist Print

April-18-13 10:25:28 AM

Work Order ID: 100125

Parent Item:

646.3301

MS27039-08-19

Parent Item Name: Upper Cutter Assembly

100125 *646 3301*

Start Date: 4/18/13

Start Qty: 10.00

Required Date: 5/02/13

Required Qty: 10.00

MS27039-08-19

AN3-14A

AN3-14A

Purchased

Purchased

No

No

110

Each

1,702.000

**

18 180

Wh 13.11.05

<u>Location</u>	Lo	c Qty	Loc Code			
ST307		102			125654	
123352		2				
123525		100			-	
st510		1200		ě		
124309		1000				
124859		200				
ST517		400				
124579		400				
	110	Each	87.0000	1	10	. Λ
				**		ml 13.11.05
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Location Loc Oty Loc Code ST512 87 123759 87

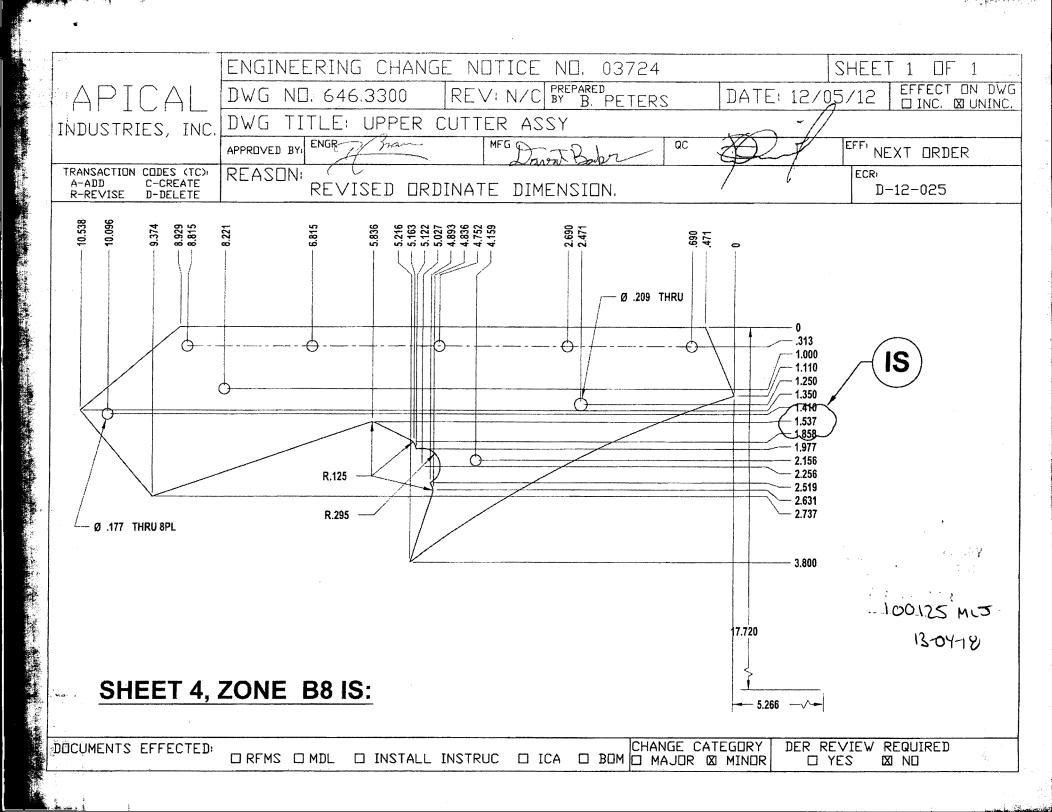
126/92

										DQA:	Date:	
NCR: Ye	s / No				WORK ORDER NON-C	ON	IFORN	/ANCE / UP	DATE	QA Closed:	Date:	
Work Order:					DISPOSITION		AGAINST DEPARTMENT/PROCESS					
Davet Ma					Rework			Skid-tube	Crosstube Small Fab	Dro	Water Jet d. Eng. Coor.	Engineering Quality
Part No). 			······	Scrap Use-as-is			Machining noforming	Finishing	4	re/Packaging	Other
NCR No.				Work Order Update		Large Fab Composite		Composite		Supplier		
Root				Descri	ption of work order update	lr	nitial	Ac [,]	tion	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chi	ief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data												
quip/Tooling												
Operator												
Material		•										
Setup		ļ										
Other						ļ		ĺ				

Landing	Gear	General		_	 _		_
	Bending	Bend		Grain	Ovalized		Pressure/Forced
	Centre Not Concentric to O/S	BOM/Route		Hardware	Over/Under tolerance		Temperature/Cure
	Cracks	Broken/Damaged	L	Inspection Incomplete	Part Incorrect		Weld
	Crushed/Crimped.	Burrs		Instructions Incomplete/Unclear	Part Lost/Missing	L	Wrong Stock Pulled
	Cuffs	Contamination		Maintenance	Part Moved		
	Heat Treat	Countersink		Mislabeled	Positioned Wrong	_	_
	Inspection Strip in Tube	Cut Too Short		Misread	Power Loss/Surge	L	Other
	Ripples in Bend	Drill Holes		Offset			
	Torque Waves in Extrusion	Drawing		Out of Calibration			
Γ	Turning Sequence	Finish		Out of Sequence			
	Wave/Twist in Tube	Folio		Outside Dimensions			

FAULT CATEGORY

Process
Supplier
Training
Unapproved



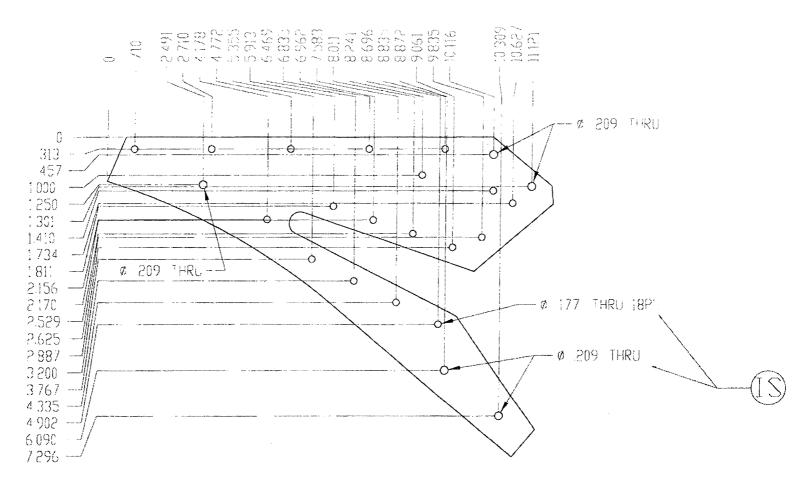
		And the second s	ENC	SINE	ERING CHANGE NUTICL NO. 021	96 SHEET 1 OF 2.
1 1	\triangle F	PICAL	DWI	G N	D. 646,3300 REVIN/C BY S. HUFI	F DATE: 01/05/09 EFFECT ON DWG
IN	יות: נוום	STRIES, INC.	DW	G T	ITLE: UPPER CUTTER AS:	Y
*''	20.	3 ((123) 1, (3)	1	VED B	Y ENGRY Some MFG/ Gull QC	EFF: NEXT ORDER
TR A	ANSA A-ADI R-REN	ACTION CODES (TC): D C-CREATE VISE D-DELETE	REA	102	REMOVED RIVETS IN FAVOR OF ADDITIONAL SO	CREWS O 1
1.4		EET 1, VIEW 6	46.33	18		MS27039-0819
14	1	601.1541		18	LOCKNUT	MS21042L08
9	 	601,2766		.3	RIVET	MS20470AD5-18
8	1	601.2764		36	WASHER	NAS1149FN832P
				,3301		
F/N	TC	PART NUMBER	QT		DESCRIPTION	MATERIAL/SPECIFICATION
·	<u> </u>	INTS EFFECTED:			☑ INSTALL INSTRUC ☑ ICA ☐ FMS ☒ B☐M ☐ MAJOR	CATEGORY DER REVIEW REQUIRED R MINOR O YES MO

02196

SHEET

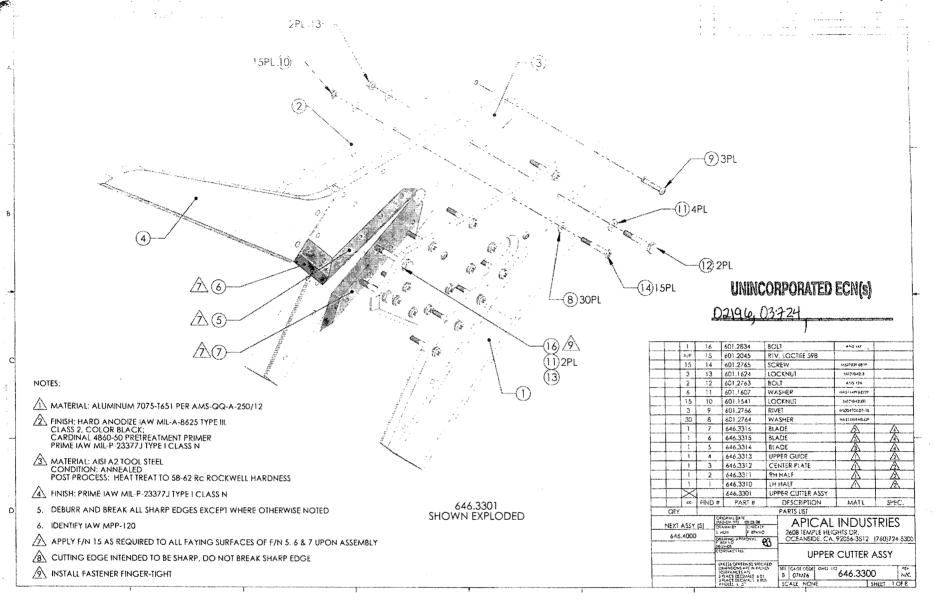
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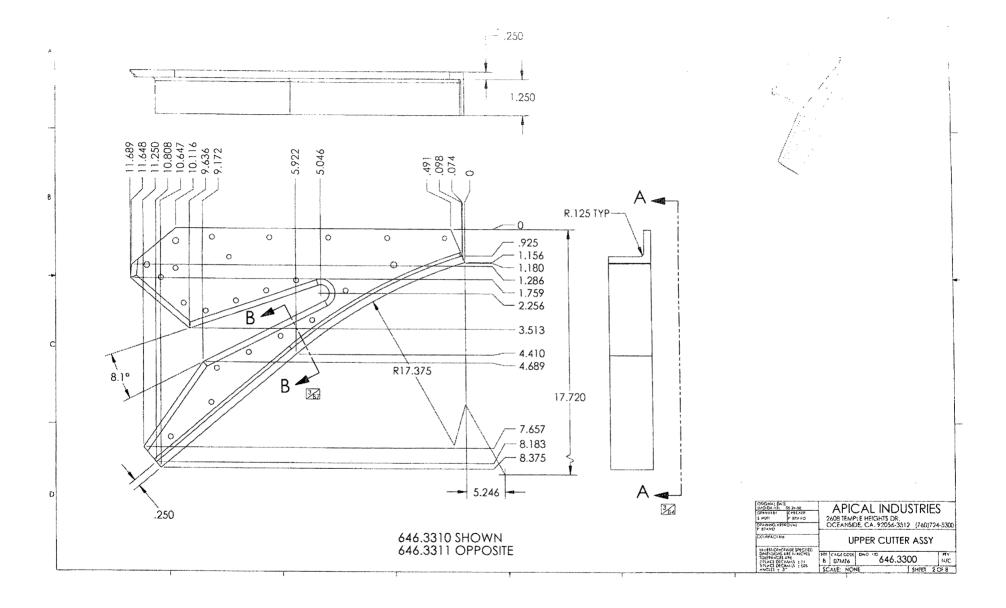
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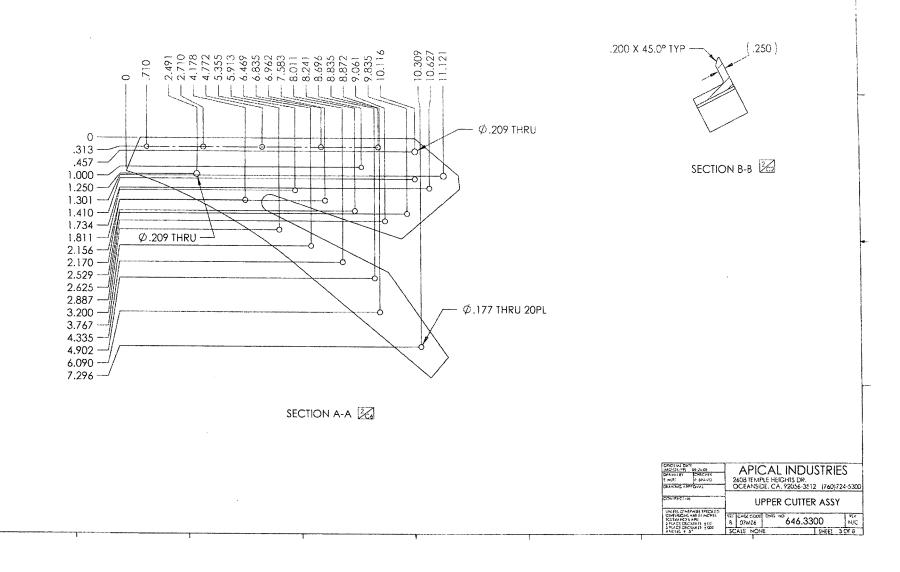


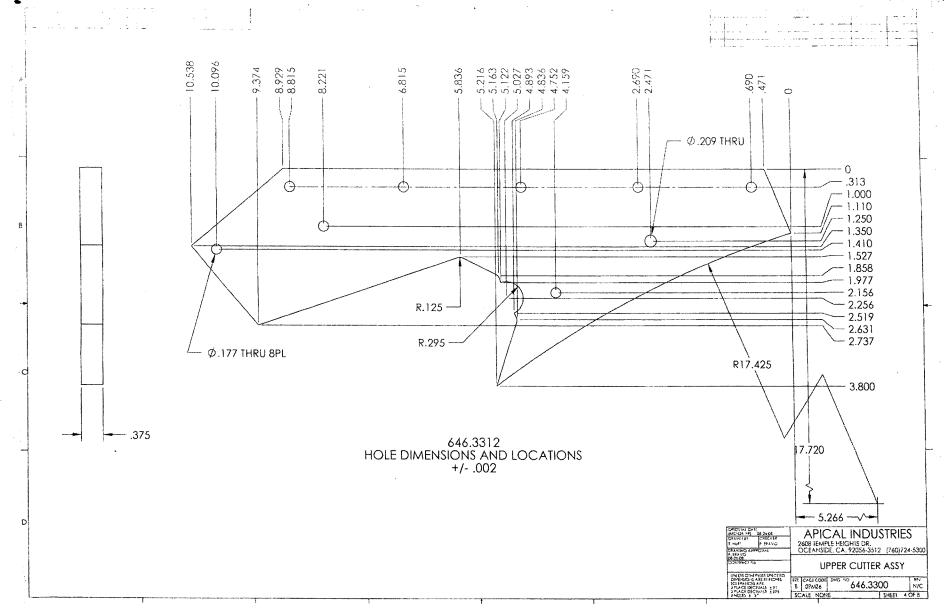
SECTION A-A PES

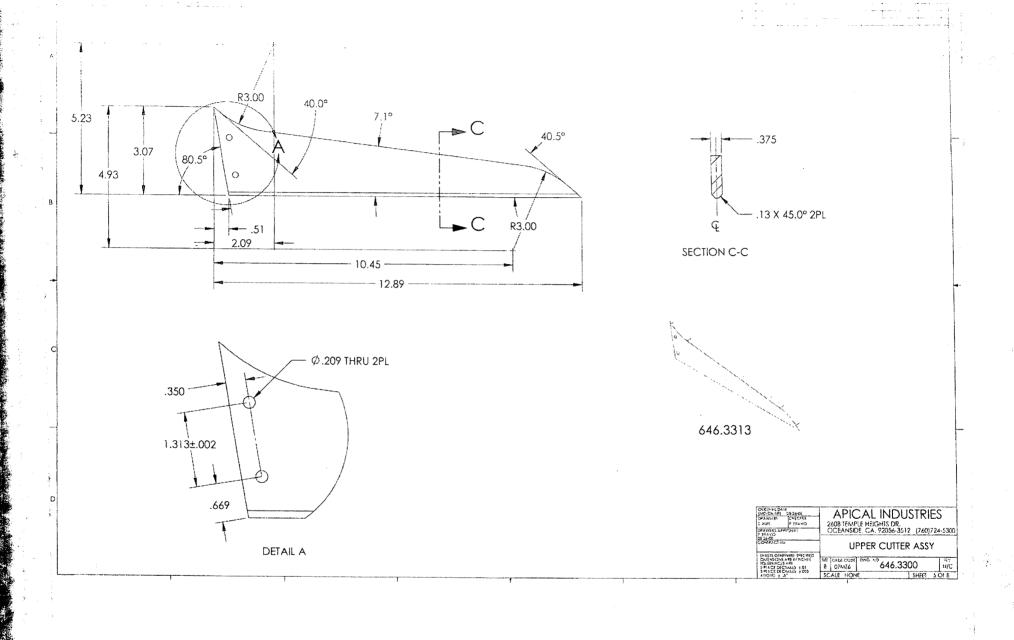
FIN TC PART NUMBER	QTY	DESCRIPTION	MATERIAL/SPECIFICATION	
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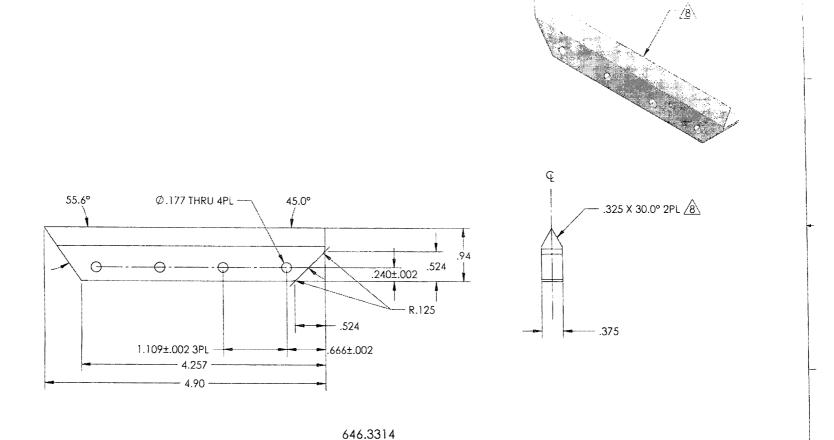


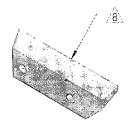


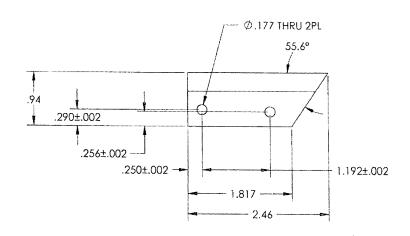
APICAL INDUSTRIES
2608 TEMPLE HEIGHTS OR.
OCEANSIDE, CA. 92056-3512 (760)724-5300

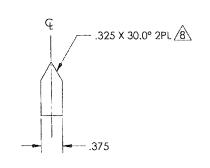
UPPER CUTTER ASSY

B 07MZ6 DAG HO 646.3300
SCALE NONE SHEE









646.3315

OPEGNAL DATE MODEL FRE DE 2018 DEWELSE DESCRIPTION S HUSE P SERVIC DPAWING APPRICATA	2608 TEMP	CAL INDUSTRII LE HEIGHIS DR. DE. CA. 92056-3512 (760)	
P SELVO COLORACO NO	-	PPER CUTTER ASS	
DAGESTONE PURE SPECES OF DAGESTON ARE SERVICES APE TRACE DECIMALS 163	SHE CASH COOK B C7M76	646.3300	REV N/C

